



Organized by:



Supported by:

AQSA Research and Education Conference 2024

Futurising Built Environment – Transformative Effects
of Artificial Intelligence and Digital Technology

19th – 20th NOVEMBER 2024
KUCHING SARAWAK MALAYSIA

AQSA Members' Institutions:



Professional Conference Organisation





ASEAN Quantity Surveyors Association (AQSA) is proudly invites all academicians, researchers, professionals, government agencies and students to participate in the AQSA Research and Education Conference 2024 with a theme of “Futurising Built Environment – Transformative Effects of Artificial Intelligence and Digital Technology”.

Sarawak stands as a beacon of successful economic development, drawing the attention of domestic and international investors. The state's resilience and prosperity can be attributed to the diversification of business sectors and the introduction of innovative strategies this year. This emphasis not only fortifies the economy's resilience but also creates avenues for sustainable growth. We search for economic growth, either for public and private sectors and smart partnership between ASEAN Economic Communities. This will be our focus to integrate the international element into a unique cooperative networking amongst the participants and centres of excellence from ASEAN countries.

I MAIN CONFERENCE THEME

AQSA Research and Education Conference 2024 with a theme of “Futurising Built Environment – Transformative Effects of Artificial Intelligence and Digital Technology”. We are calling for papers for presentation that will benefit future planning, development and maintenance of ASEAN built environment. This conference consisting ten sub-themes that provides a good opportunity for gathering and sharing of experiences of construction management, real estate development and facilities management.



SUB-THEMES (ST)

(ST01) Smart Sustainable Development

- Sustainable urban development
- Planning and utilization for land resources
- Green Building / Energy-efficient building / Ecological building
- Applications of AI & DT in sustainable development

(ST02) Real Estate Industry

- Urbanization and real estate market
- Future directions for the international real estate market
- Housing policies and social harmony
- Knowledge management in real estate enterprises
- Applications of AI and DT in real estate industry

(ST03) Construction Industry Development

- Industrialization of construction industry
- Supply chain in construction industry
- Organizational psychology and the behaviour of construction firms
- International construction industry development
- Integration of AI & DT in construction industry development

(ST04) Project Management

- Value management
- Change management
- Design management
- International project management
- AI, robotics, machine learning & DT in project management

(ST05) Asset and Facilities Management

- Supporting property management through effective design and construction
- Digital twin, drone technology and new approaches for facilities management
- Specific issues for the management of green and sustainable buildings
- Emerging trends in facilities management

(ST06) Contract Management and Law

- Analysis of conditions of contract and contract management
- Legal study on construction
- Applications of AI and DT in contract management and law

(ST07) Safety and Risk Management

- Safety alert and safety monitoring
- Emergency treatment of safety accident
- Intelligent safety management
- Applications of AI and DT in safety and risk management

(ST08) Data Analytics and Digital Technology

- Data analytics and informatization of construction
- New approaches to design, construction and maintenance using digital technology
- Blockchain technology for supply chain and smart contract

(ST09) Large Infrastructure Management

- Study on the investment and financial model
- Study on large-scale project organization mode
- Study on disaster warning of large infrastructure
- Autonomous large-scale project management and monitoring

(ST10) Education in Built Environment

- Professional education of quantity surveyors
- Education of real estate, architecture, engineering and construction professionals
- Teaching pedagogy using AI & DT
- Continuing professional education, training and development



II PROGRAMME

Programme

8.15am–8.45am

9.00am–9.20am

9.20am–10.30am

10.30am–11.00am

11.00am–11.40am

11.40am–12.20pm

12.20pm–2.00pm

2.00pm–2.30pm

2.30pm–3.00pm

3.00pm–3.30pm

3.30pm–4.00pm

4.00pm–4.30pm

4.30pm–5.00pm

5.15pm

CONFERENCE DAY ONE (19th NOVEMBER 2024 – TUESDAY)

Registration

PLENARY SESSION 1

Welcoming Address by AQSA President, Mr Goh Ngan Hong

Official Opening

Speech by Guest of Honour

Launching of Conference/Multi-Media Presentation

Presentation of Awards

Presentation of Certificates of Appreciation

Coffee Break & Networking

Keynote 1

Sub-theme: Smart Sustainable Development

Keynote 2

Sub-theme: Real Estate Industry

Lunch Break

Keynote 3

Sub-theme: Construction Industry Development

Keynote 4

Sub-theme: Project Management

Tea Break & Networking

Paper Presentations 1, 2, 3 & 4

Paper Presentations 5, 6, 7 & 8

Paper Presentations 9, 10, 11 & 12

End of Day 1



Programme

8.15am–9.00am

9.00am–9.30am

9.30am–10.00am

10.00am–10.30am

10.30am–11.00am

11.00am–11.30am

11.00am–11.30am

12.00pm–1.30pm

12.00pm–1.30pm

2.00pm–4.30pm

4.30pm–5.00pm

5.00pm

7.30pm–10.30pm

CONFERENCE DAY TWO (20th NOVEMBER 2024 – WEDNESDAY)

PLENARY SESSION 2

Registration

Keynote 5

Sub-theme: Asset and Facilities Management

Keynote 6

Sub-theme: Contract Management & Law

Coffee Break & Networking

Keynote 7

Sub-theme: Safety and Risk Management

Keynote 8

Sub-theme: Data Analytics and Digital Technology

Keynote 9

Sub-theme: Large Infrastructure Management

Lunch Break

Keynote 10

Sub-theme: Education in Built Environment

Dialogue Session for Practitioners

Tea Break & Networking

End of Day

GALA DINNER



ASEAN UNIVERSITY STUDENTS JAMBOREE

The ASEAN University Students Jamboree, which aims to foster cultural exchange and create a vibrant platform for international students to showcase their talents, exchange ideas, and build lasting connections.

The primary objective of the International Students Jamboree is to celebrate diversity, promote intercultural understanding, and provide a meaningful experience for international students studying across various institutions. The event will offer opportunities for cultural performances, exhibitions, workshops, and networking sessions.

Event Details:

Date: 20th November 2024

Venue: UNIMAS Campus, Kuching, Sarawak

Cohost: UNIMAS, Sarawak

Expected Participants: International students from various universities and institutions in ASEAN countries.

III SUBMISSION OF PAPERS

(1) Papers will be selected through peer review process. The English version of selected papers will be included in the Conference Proceedings which will be formally published and the Proceedings will be submitted for the inclusion of the Proceeding in ISTP Catalogue.

(2) Paper size: English version should not exceed 10 pages (including abstract and diagrams).

(3) All papers should be emailed to **aqsaconference@aqsa.world** and we will reply a confirmation after receive your email. For detailed formatting instructions, please see paper format and details, which can be downloaded from **<http://www.aqsa.world>**, please indicate the number of the themes when submit papers and abstracts.

(4) Deadlines:

- | | |
|----------------|--|
| • 15 Aug 2024 | : Abstract submission |
| • 30 Aug 2024 | : Notification of acceptance of abstract |
| • 30 Sept 2024 | : Full paper submission |
| • 15 Oct 2024 | : Notification of acceptance of full paper |
| • 30 Oct 2024 | : Final manuscript submission |
| • 19 Nov 2024 | : Conference |

IV CONFERENCE PUBLICATIONS

- All accepted papers will be published in full, in electronic form, along with extended abstracts in hard copy
- Selected papers will be considered for a Special Issue of the International Journal of Construction Management;



V LANGUAGE AND FORMAT

Conference Language English
Proposed Conference Format

- Registration : 18th Nov. Monday
- Conference Day 1 : 19th Nov. Tuesday Programme: Conference Open, Keynote Speeches, Oral Sessions
- Conference Day 2 : 20th Nov. Wednesday Programme: Keynote Speeches, Oral Sessions, Close.
- Go Holiday Tour : 21st Nov. Thursday Programme: Golf and Sarawak Cultural Village (SCV) Tour

VI CONFERENCE ORGANISERS



ASEAN Quantity Surveyors Association (AQSA)



IKATAN QUANTITY SURVEYOR INDONESIA
(INDONESIAN ASSOCIATION OF QUANTITY SURVEYORS)





VII CONFERENCE SUPPORTING ORGANIZERS



Scan for registration

VIII CONFERENCE REGISTRATION

All attendees must register and pay the conference registration fee before **September 30, 2024** to ensure your papers included in Proceedings. All full delegate rates include registration to all sessions of the conference, all refreshment and meal breaks, a full copy of the published proceedings and the conference dinner.

(A) Registration on or before September 30, 2024: EARLY BIRD RATE

- ☐ USD 250 (normal delegate, paper included in Proceedings)
- ☐ USD 200 (AQSA member, paper included in Proceedings)
- ☐ USD 50 (PG and UG student attending conference only)
- ☐ USD 20 (student delegate attending conference and QS Jamboree at UNIMAS)

(B) Registration after September 30, 2024:

- ☐ USD 300 (normal delegate, paper included in Proceedings)
- ☐ USD 250 (AQSA member, paper included in Proceedings)
- ☐ USD 60 (PG and UG student attending conference only)
- ☐ USD 20 (student delegate attending conference and QS Jamboree at UNIMAS)

OFFER TO ASEAN HIGHER LEARNING INSTITUTIONS:

Less 30 students USD20 per student

More 30 students registration is FREE

MODE OF PAYMENT: Payments in bank draft and local cheque should be made payable to **ASEAN QUANTITY SURVEYORS ASSOCIATION** and sent directly to the Secretariat.

Payment Details:

Bank Name: Malayan Banking Berhad

Account Name: ASEAN Quantity Surveyors Association

Account Number: 5641-6445-5061

Swift Code: MBBEMYKL



ASEAN QS ASSOCIATION

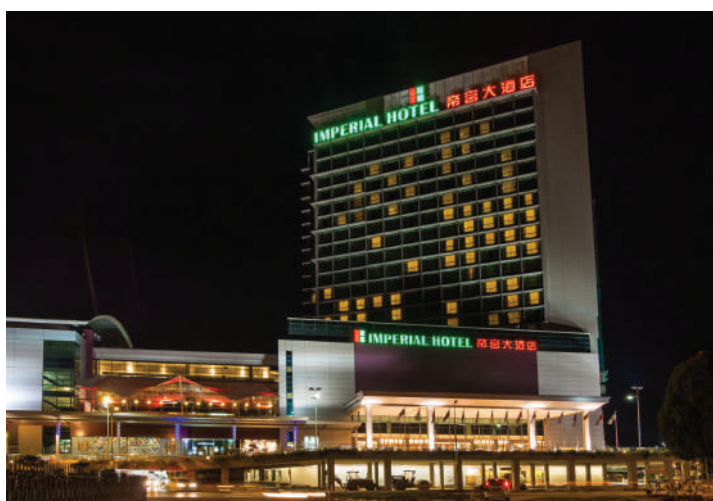
Scan for payment

CANCELLATION AND TRANSFER POLICY: If you are unable to attend, a substitute participant/presenter is allowed at no extra cost, provided that written notice is given one month prior to the event. Any cancellation will not be entertained.



CONFERENCE VENUE

Imperial Hotel Kuching is a 4-star business class hotel which sits on top of the Boulevard Shopping Mall and adjoins the Imperial Suites. It is strategically located in the heart of Kuching, just 5-minutes' drive from the Kuching International Airport (KIA) and 10-minutes to the city's central business district.



CONFERENCE ACCOMMODATION:

The conference organizer can provide assistance to book accommodations. Register should fill in the enclosed AQSA International Conference 2024 Registration Form and send it to the organizing committee.

aqsaconference@aqsa.world

Please refer to the hotels recommended by the Secretariat.

HOTELS IN KUCHING	STAR	RESERVATION
1. Imperial Hotel	★★★★★	T: +6082 588999 E: ihkch@imperial.com.my
2. The Pullman Hotel	★★★★★	T: +6082-222888 E: H6332@accor.com
3. Hilton Hotel	★★★★★	T: +6082-223888 E: kuching.info@hilton.com
4. Grand Margherita Hotel	★★★★★	T: +6082-532111 E: contact@gmh.my
5. Raia Hotel	★★★★★	T: +6082-268585 E: info@raiahotels.com.my
6. Tune Hotel Waterfront Kuching	★★★	T: +082-238221 E: gss@tunehotelswaterfrontkuching.com
7. Kingwood Hotel Kuching	★★★	T: +6082-330888 E: kingwoodinnkch@gmail.com

Prices range from RM200 to RM500 (USD 45 to USD 120) per room. For assistance on accommodation arrangement, please contact the AQSA International Conference 2024 Secretariat.



IX ORGANIZING COMMITTEE

Advisor

Goh Ngan Hong

AQSA President

Organising Chairman

Abdul Ghani Khalid

AQSA Secretary General

Organizing Secretary

Syed Abdul Haris

Universiti Teknologi, MARA (UiTM)

Treasurer

Lim Kok Sang

Royal Institution of Surveyors Malaysia (RISM)

Chair, International Scientific Committee

Sarajul Fikri Mohamed

Universiti Teknologi Malaysia (UTM)

Chair, ASEAN Students' Jamboree

Shazwan Mohamed Shaari

Universiti Malaysia Sarawak (UNIMAS)

Committee Members:

Amanda Ng

Suwit S.

Le Le Win

Widitomo

Billie Lie

Julie Christie M. Dela Cruz

Antonette Del Sol

Mohamed Humdhan

Syukri Zulkipli

Saravanan Subramaniam

Vincent Leong

Khor Tse Eng

Florence Ling

Saiful Nizam Suhaimi

Association of Quantity Surveyors (AQST), Thailand
Association of Quantity Surveyors (AQST), Thailand
Federation of Myanmar Engineering Societies, QS
Chapter (Fed. MES)

Ikatan Quantity Surveyors, Indonesia (IQSI)

Ikatan Quantity Surveyors, Indonesia (IQSI)

Philippine Institute of Certified Quantity Surveyors
(PICQS)

Philippine Institute of Certified Quantity Surveyors
(PICQS)

Pertubuhan Ukur, Jurutera & Arkitek, Brunei
Darussalam (PUJA)

Pertubuhan Ukur, Jurutera & Arkitek, Brunei
Darussalam (PUJA)

Royal Institution of Surveyors Malaysia (RISM)

Singapore Institute of Surveyors & Valuers (SISV)

Singapore Institute of Surveyors & Valuers (SISV)

National University of Singapore

International Islamic University Malaysia (IIUM)



X INTERNATIONAL SCIENTIFIC COMMITTEE

Chair

Sarajul Fikri Mohamed

Universiti Teknologi Malaysia (UTM)

Committee Members:

Billie Lie
Florence Ling
Hasmawati Harun
Igwe Sampmson
Le Le Win

Lilawati A. Wahab
Mohd Azwarie Mat Dzahir
Mohd Saidin Misnan
Nor Azeyah Khiyon
Richard Marcelo

Saiful Nizam Suhaimi
Sh. Mazlina Syed Khuzzan
Slyvia Mong
Soon Lam Tat
S. Suwit
Syamsul Hendra Mahmud
Syed Abdul Haris Syed Mustapa
Syukri Zulkipli

Wan Faida W. Azmi
Sharifah Nur Aina Syed Alwee

Ikatan Quantity Surveyor Indonesia (IQSI)
National University of Singapore (NUS)
Universiti Teknologi MARA (UiTM)
University of Technology Dublin
Federation of Myanmar Engineering Societies
QS Chapter (Fed. MES)
Universiti Teknologi MARA (UiTM) Malaysia
Universiti Teknologi Malaysia (UTM)
Universiti Teknologi Malaysia (UTM)
University of Reading Malaysia
Philippine Institute of Certified Quantity Surveyors (PICQS)
International Islamic University Malaysia (IIUM)
International Islamic University Malaysia (IIUM)
Universiti Teknologi MARA (UiTM) Malaysia
Taylor's University (TU) Malaysia
Association of Quantity Surveyors (AQST), Thailand
Universiti Teknologi Malaysia (UTM)
Universiti Teknologi MARA (UiTM) Malaysia
Pertubuhan Ukur, Jurutera & Arkitek, Brunei Darussalam (PUJA)
Universiti Teknologi MARA (UiTM) Malaysia
Universiti Teknologi MARA (UiTM) Malaysia

XI SECRETARIAT

Katherine Thiang

ASEAN Quantity Surveyors Association (AQSA)



XII IMPORTANT DATES

- 05/07/2024 : Conference registration opens
15/08/2024 : Submission of paper abstracts, for review
30/08/2024 : Notification of acceptance of paper abstract
30/09/2024 : Submission of full paper only, for review
15/10/2024 : Notification of acceptance of full paper
30/10/2024 : Final paper submission for publications
15/11/2024 : Conference registration close
19/11/2024 : AQSA Research and Education Conference 2024 Open
20/11/2024 : AQSA Research and Education Conference 2024 Close

XIII FURTHER INFORMATION

Conference Website: <http://www.aqsa.world>

Conference Administration Email: aqsaconference@aqsa.world

Correspondence:

ASEAN Quantity Surveyors Association

c/o 3rd Floor, Bangunan Jurukur

No. 64 & 66, Jalan 52/4

46200 Petaling Jaya, Selangor Darul Ehsan, Malaysia

E: enquiry@aqsa.world

T: +6012-8123387

W: <https://www.aqsa.world>

Secretariat

Katherine Thiang


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T: +6012-3519229

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Suite 33.1, 1st Floor, Kueh Hock Kui Commercial Centre

Jalan Tun Ahmad Zaidi Adruce, 93150, Kuching, Sarawak, Malaysia.

E: mok@catcityholidays.com, mice@catcityholidays.com  +6012-888 1480

Pre and Post Tour:



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